



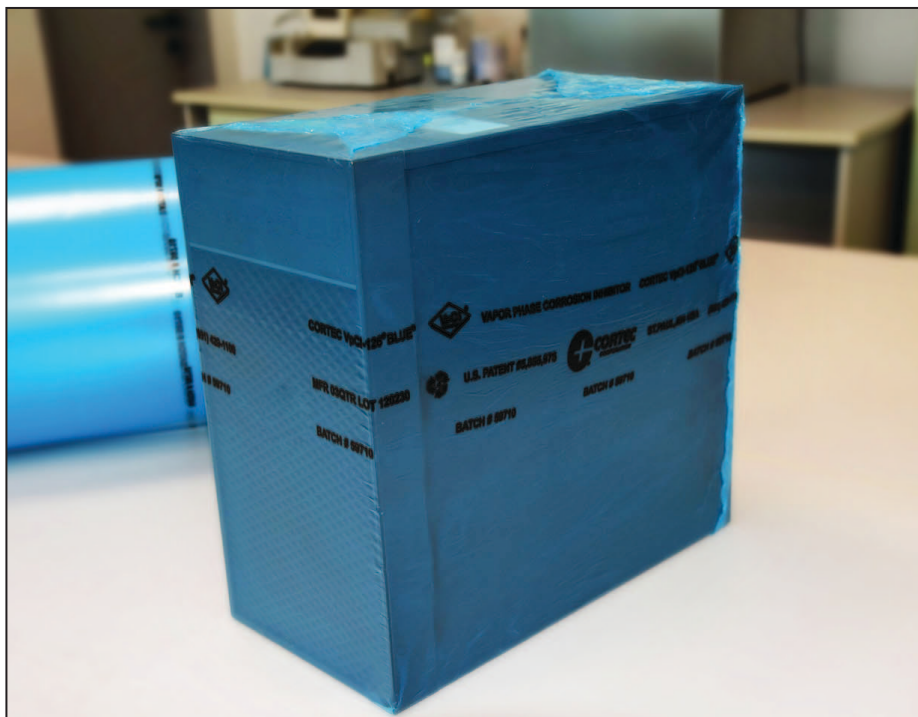
EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV)

PRODUCT DESCRIPTION

EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV) combines the latest film technology with the most effective corrosion protection for all of your metal products. The film is mixture of high strength resins, ESD protection with ultraviolet light stabilizers (UV) and Vapor phase Corrosion Inhibitor Technology.

This ESD Shrink Film is unique in its ability to prevent corrosion and ESD damage. It combines multi-metal corrosion protection with strong static dissipative properties. EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV) replaces conventional rust preventatives such as oils and desiccants, allowing your product to be used immediately without cleaning or degreasing. Sealing your product in this VpCI® ESD Shrink Film will protect a wide variety of metals from rust, tarnish, stains and oxidation. It enables cost savings because EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV) will eliminate all the degreasing or coating removal required in the past. Your product can be used immediately. Additionally, it does not contain free amines, phosphates, or halogen-based materials and is non-toxic and recyclable

EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV) effectively protects components from electrostatic discharge. It conforms to the surface resistivity and static decay requirements of MILPRF-81705 D (Static Dissipative Packaging Materials). The film is safe to use and does not contain any harmful Prop 65 ingredients. EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV) has been tested effective for up to



PACKAGING AND STORAGE

The product comes in variety of sizes. EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV) is available in custom-size film and tubing. Film is available in thicknesses from 100-250 microns.

The shelf life of EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV) is 1 year.

ADVANTAGES

- Contains Vapor phase Corrosion Inhibitors (VpCI®) to protect void spaces and recessed areas
- Will shrink using a wide variety of shrink tools including electric and propane heat guns
- Provides UV protection for outdoor storage
- Provides multi-metal VpCI® protection to ferrous and non-ferrous metals

2 years of corrosion protection and 1 year of ESD protection.

The corrosion inhibitors vaporize and condense on all metal surfaces within the enclosed space and diffuse to every area of your

part; protecting its exterior, as well as void spaces and recessed areas. Equipment is completely protected from corrosion during storage, lay-up, and staging as well as during domestic and overseas shipments.

EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV)

- Prevents ESD damage
- Does not affect optical properties
- Does not affect plastics used in electronic industry
- Does not contain free amines or harmful Prop 65 ingredients
- Does not affect solderability of PCB or parts (IPC-J-STD-003C)
- Recyclable and non-toxic
- Meets NACE TM0208-2008 "Vapor Corrosion Inhibiting Ability" and NACE RP0487-2000 "Selection of Rust Preventives Standards"

METALS PROTECTED

- Aluminum
- Brass
- Carbon Steel
- Silicon Steel
- Stainless Steel
- Copper
- Solder

Mechanical Properties VpCI® 125-BLUE ESD HP UV SHRINK FILM

Property		Test Method	Units	Values
Thickness		ASTM D6988	µm	180
Breaking Factor	MD	ASTM D882-02	N/m	4008,20
	CD			3679,33
Tensile Strength at Break	MD	ASTM D882-02	MPa	20,96
	CD			19,94
Elongation at Break	MD	ASTM D882-02	%	789,0
	CD			810,6
Tear Strength	MD	ASTM D1922	mN	11405,76
	CD			16533,12
Impact Puncture		ASTM D3420-0495 B	N	35159,04
			J	3,03
Coefficient of Friction		ASTM D1894	Kinetic Upper limit 0,400	0,108
Coefficient of Friction		ASTM D1894	Static Upper Limit 0,400	0,151
Shrink Test	MD	ANSI/ASTM D 2732-70	%	51,7
	CD			38,3

EcoSonic® VpCI®-125 ESD Shrink Film (HP-UV)

VpCI® 125-BLUE ESD HP UV SHRINK FILM Antistatic Properties before shrinking

Military Standards: MIL-PR8-81705 Test Method No101C, Method 4046
International standard: IEC 61340-5-1

Surface Resistivity (Ohm/Sq)		Static Decay Rate (sec)			
Limit 1.0×10^5 to 1.0×10^{12}		Limit 2 seconds			
		+ 5000 Volts		- 5000 Volts	
Outside	Inside	Outside	Inside	Outside	Inside
$1,5 \times 10^{10}$	$1,8 \times 10^{10}$	0,83	0,76	0,86	0,80

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Surface Resistivity (Ohm/Sq)		Static Decay Rate (sec)			
Limit 1.0×10^5 to 1.0×10^{12}		Limit 2 seconds			
		+ 5000 Volts		- 5000 Volts	
Outside	Inside	Outside	Inside	Outside	Inside
$5,9 \times 10^8$	$5,7 \times 10^8$	0,02	0,01	0,01	0,01



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